

Photo by Doug Wilcox

Thursday, May 7, 2015
6:30 p.m. - 8:30 p.m.
Eastman Room
Town of Greece Town Hall
1 Vince Tofany Blvd • Greece, New York

Braddock Bay Restoration Public Meeting

The U.S. Army Corps of Engineers, in cooperation with the U.S. Environmental Protection Agency, New York State Department of Environmental Conservation and Town of Greece, have completed the design for ecosystem restoration at Braddock Bay, Monroe County, NY, and will present the final plans for implementation.

Website: http://www.bit.ly/BraddockBay







Braddock Bay Final Design

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Agenda

- 1. Project Presentation
- 2. Town of Greece Perspective
- 3. Poster Session Q&A

Note: Comments received tonight will be submitted to the USACE Regulatory office in regards to the current permit application for Braddock Bay Ecosystem Restoration







Shoreline 1902-2009





Problems

- Erosion/Wetland Loss
- Degraded Wetland Quality

Objectives

- Restore wetland and habitat diversity in Braddock Bay to improve its suitability for fish and wildlife including northern pike, American mink, and the state listed black tern during the planning period of 2015-2065
- 2. Protect Braddock Bay wetlands from erosion during planning period of 2015-2065





Project Constraints

- Avoid impacts to nutrient dynamics of Braddock Bay that will worsen eutrophication
- Avoid negatively impacting navigability and operation of marinas
- Avoid negative impacts to Lake Ontario littoral drift system
- Avoid inducing sedimentation in Braddock Bay that will negatively impact ecosystem process, navigation, or compromise existing infrastructure
- Avoid excessive disturbances to intact coastal habitat at Braddock Bay
- Avoid impacts to intact wetland habitat already existing in Braddock Bay
- Avoid project activities that will increase extent of invasive species
- Limited or no construction methods may be allowed during fish spawning and avian breeding time periods



BARRIER BEACH RENDERING New Habitat Mound **GENERAL PLAN** New Emergent Wetland Trolley Line Relocation Access Route BARRIER BEACH PROFILE Bayside Lakeside Beach Grass

Braddock Bay Ecosystem Restoration Final Design

















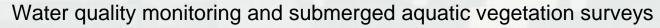
Adaptive Management How will we know if its working?

Objectives

- 1. Restore wetland habitat diversity and suitability for wildlife
 - ► Emergent and submerged vegetation monitoring, fish, bird, and amphibian surveys
- 2. Protect Braddock Bay wetlands from erosion
 - ► Analysis of aerial imagery

Constraints

- 1. Avoid negative impacts to navigation
 - Bathymetric surveys
- 2. Avoid negative impacts to littoral drift
 - Analysis of aerial imagery
- 3. Avoid negative impacts to trophic state











Adaptive Management What do we do if it is not working?

- Additional habitat enhancements
- Structural modifications
- 3. Excavate "relief valve"







Next Steps

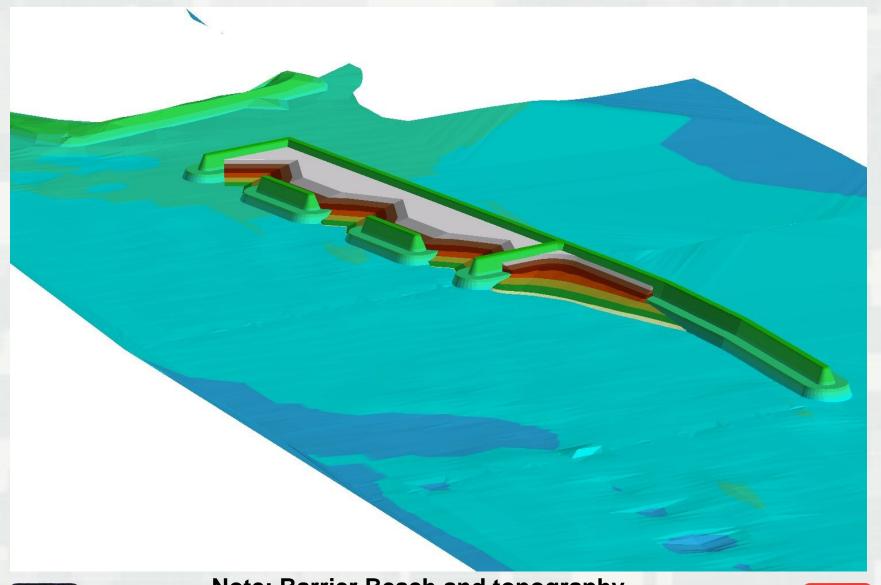
- May 7- Public Meeting for Final Design
- May 2015 Sign Interagency Agreement for Construction
- August 2015 Begin Construction
- September 2016 Substantially Complete Construction
- Spring 2017 Final Landscaping and Planting
- Summer 2017 Monitoring and Adaptive Management





Navigation Channel



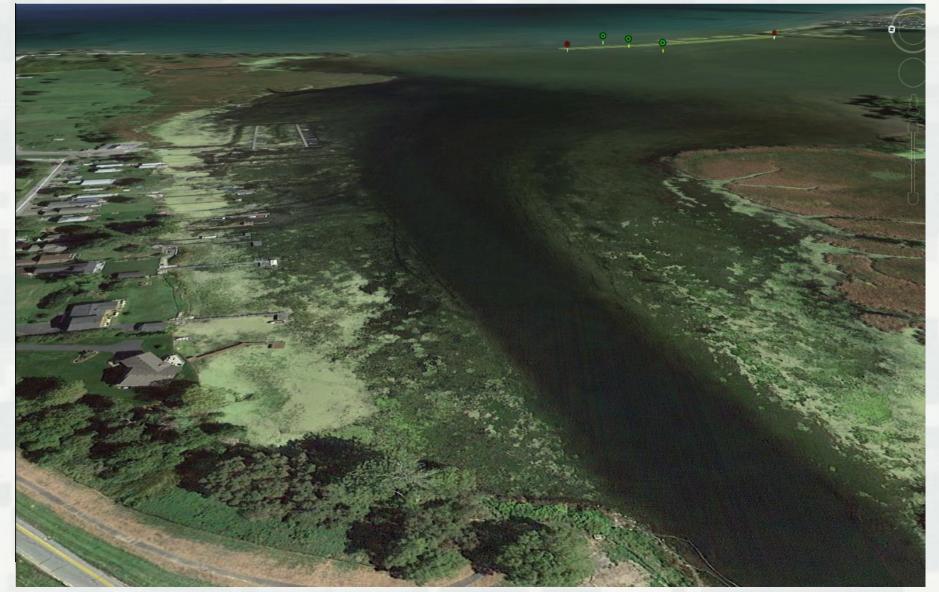




Note: Barrier Beach and topography shown with 5X vertical exaggeration









View Shed

14



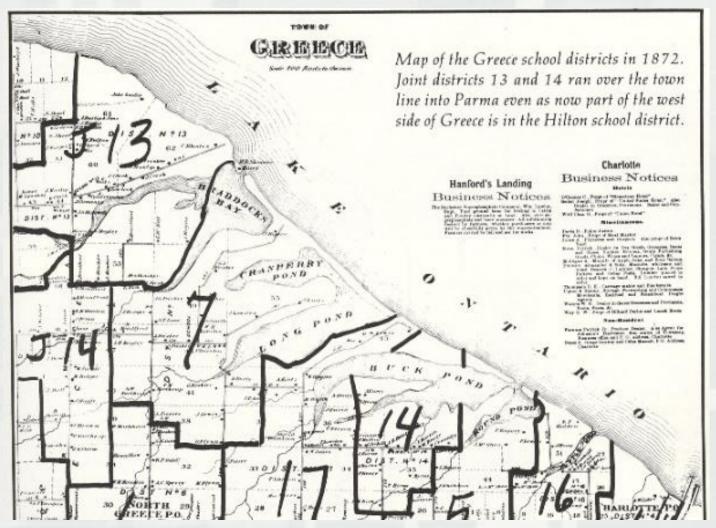
Recent Questions

- Sedimentation in the bay?
- How will this affect navigation?
- Was there a historic barrier beach?



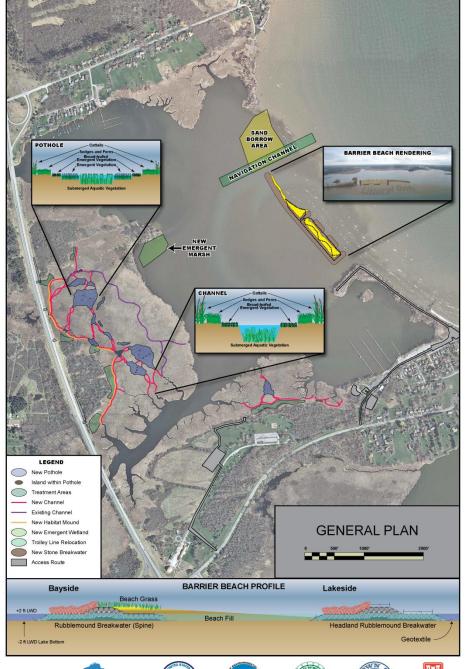


Was there a historic barrier beach?









Braddock Bay Ecosystem Restoration



Town of Greece Perspective















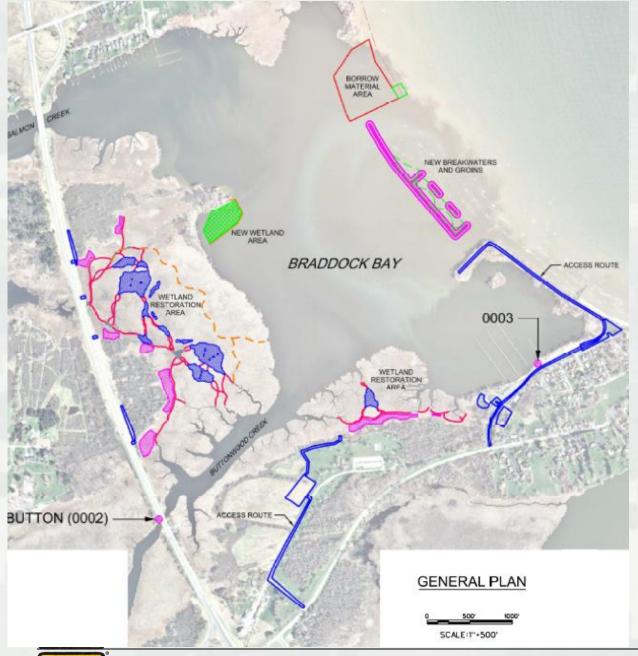






Photo by Brian Hansen

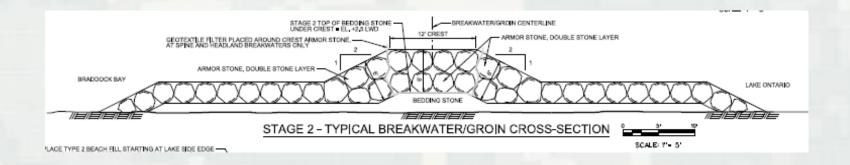


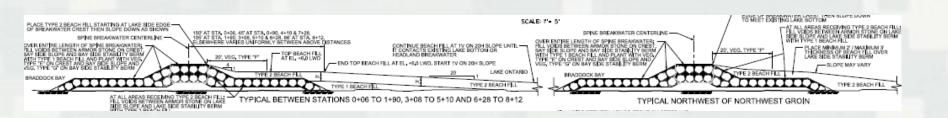


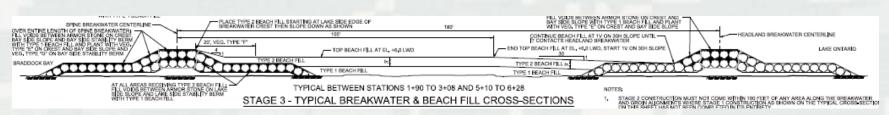
Design Plan





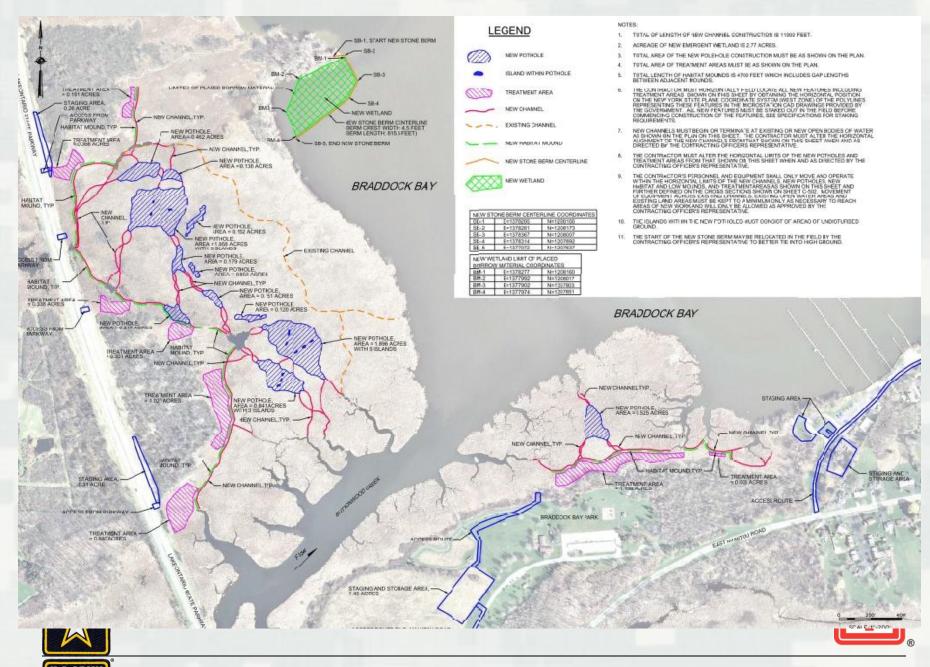


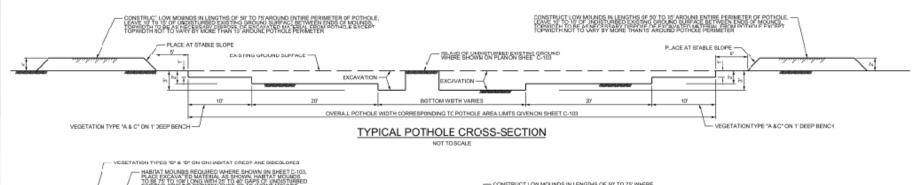


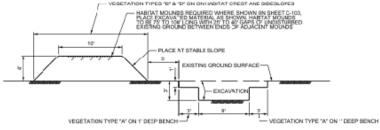








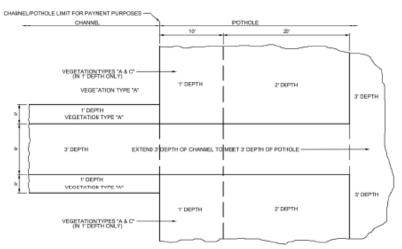




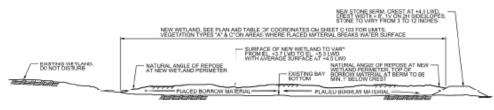
EXISTING GROUND SURFACE - EXCAVATION VEGETATION TYPE, "A" ON 1" DEEP BENCH-VEGETATION ITYPE "A" ON 1' DEEP BENCH

TYPICAL CROSS-SECTION - CHANNEL WITH HABITAT MOUND

TYPICAL CROSS-SECTION - CHANNEL WITH LOW MOUND



TYPICAL CHANNEL & POTHOLE INTERSECTION DETAIL



TYPICAL NEW EMERGENT WETLAND CROSS-SECTION

VEGETATION PLANTING REQUIREMENTS	
TYPE	VEGETATION
A	EMERGENT WETLAND SEEC MIX
В	SEDGE GRASS MEADOW SEED MI
C	EMERGENT PLUGS
D	SEDGE GRASS MEADOW PLUGS

NOTES

- KCAVATION CUTS SHOWN ON THE CROSS SECTIONS MAY BE IRREGULAR AS LONG AS THE ACQUARTAL DIMENSIONS OF THE PROJECT FEATURES IN THE FIELD ARE AN AVERAGE OF THE SHOWN ON THE CRISOS SECTIONS.
- YEGETATION MUST BE ONLY BE PLANTED WHERE SHOWN AN THE CROSS-SECTIONS AND AS DEFINED ON THE TABLE ON THE SHEET. SEE CONTRACT SPECIFICATIONS FOR FURTHER VEGETATION PLANTING.

